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**ABSTRACT OF THE DISCLOSURE**

According to an exemplary embodiment, the present technique relates to a fuel sensor for determining operational fuel level ( $h_{new}$ ) in a fuel tank (14). In the exemplary embodiment, an isolated airspace (44) is created. By monitoring the pressure conditions in the isolated airspace 44 as well as the pressure and temperature conditions in the remainder (42) of the tank (14), the operational fuel level ( $h_{new}$ ) may be determined.

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